

Applicant: George P. Emerson

For: IMPROVED INSUFFLATION-EXSUFFLATION SYSTEM FOR  
REMOVAL OF BRONCHO-PULMONARY SECRETIONS WITH  
AUTOMATIC TRIGGERING OF INHALATION PHASE

ABSTRACT OF DISCLOSURE

An improved insufflation-exsufflation system for removal of broncho-pulmonary secretions with automatic triggering of inhalation phase includes a conduit for connection  
5 to a patient's airway; a pressure source with a positive pressure port and a negative pressure port; a switching device selectively connecting the conduit to the positive pressure port, the negative pressure port and the dwell port; the sensor system for sensing an inhalation by the patient; and a controller system for driving the switching device to connect the conduits sequentially to the positive port, the negative port and the dwell port  
10 and to return again to the positive port in response to the sensor system sensing an inhalation by the patient while the conduit is connected to the dwell port.